ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

BILL NO. 1st and Final

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work Improvement to Roads & drains at Sarajipalya To. Main and cross Roads in ward No. (6) 251766

Name of Contractor of nature of Agency I.K.R.I.D.L

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work code No: 006-14-000059						
	Work order No: 415/21-2-14						
	Est Amount Rs. 60.00 Lakhs.						
	Date of Recording: 14.8.2014						
	1) Earth work excavation by manual means in hard soil involving an average lift upto 2m and an average throw upto 2m including excavated surface level etc complete						
	Drain Desilting Road A	2	30.00	0.45	0.45	24.30	
		2	12.00	0.45	0.40	4.32	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Road B	2	30.00	0.45	0.45	12.15	
		2	19.00	0.45	0.40	6.84	
	Road C	2x3	30.00	0.45	0.45	36.45	
		2	34.00	0.45	0.40	12.24	
	Road D	2x2	30.00	0.45	0.40	21.60	
		2	20.00	0.45	0.45	8.10	
	Road E	2x2	30.00	0.45	0.45	24.30	
		2	22.00	0.45	0.40	15.84	
	Road F	2x2	30.00	0.45	0.45	24.30	
		2	20.00	0.45	0.40	14.40	
	Berm cutting Road A	2x2	30.00	0.90	0.25	22.80	
		2	12.00	1.05	0.20	5.04	
	Road B	2	30.00	0.95	0.30	17.10	
		2	19.00	0.90	0.20	6.84	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Road C
	Road D
	Road E
	Road F

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
0.45	0.45	12.15	
0.45	0.40	6.84	
0.45	0.45	36.45	
0.45	0.40	12.24	
0.45	0.40	21.60	
0.45	0.45	8.10	
0.45	0.45	24.30	
0.45	0.40	15.84	
0.45	0.45	24.30	
0.45	0.40	14.40	
0.90	0.25	22.80	
1.05	0.20	5.04	
0.95	0.30	17.10	
0.90	0.20	6.84	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251767

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Road C	2x3	30.00	0.85	0.20	30.60	
		2	34.00	1.05	0.25	17.85	
	Road D	2x2	30.00	1.20	0.25	36.00	
		2	20.00	1.00	0.25	10.00	
	Road E	2x2	30.00	1.15	0.20	27.60	
		2	22.00	1.10	0.20	9.68	
	Road F	2x2	30.00	1.05	0.20	25.20	
		2	20.00	1.20	0.25	12.00	
						416.33 cum	
					@	90.72/cum	37769=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
2)	Earth work excavation for Sanitary line and electrical above in width in hard soil	foundation & conduits either in pits or in trenches including all		buildings culverts water supply complete			
		1	30.00	1.20	1.00	36.00	
		1	30.00	1.20	1.00	36.00	
		1	30.00	1.20	1.00	36.00	
		1	30.00	1.20	1.00	36.00	
		1	30.00	1.20	1.00	36.00	
		1	30.00	1.20	1.00	43.20	
		2	30.00	1.20	1.00	72.00	
		2	30.00	1.20	1.00	72.00	
		2	18.00	1.20	1.00	43.20	
		2	30.00	1.20	1.00	72.00	
		2	30.00	1.20	1.00	72.00	
		2	15.00	1.20	1.00	36.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
3)	Removing & BS slab	

OOK

	Depth 6	Contents 7	Reference to last Measurement 8
			clings Culverts water supply
			ith or in trenches 1.5m and
	1.00	36.00	
	1.00	36.00	
	1.00	36.00	
	1.00	36.00	
	1.00	36.00	
	1.00	43.20	
	1.00	72.00	
	1.00	72.00	
	1.00	43.20	
	1.00	72.00	
	1.00	72.00	
	1.00	36.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251768

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						588.00 cum	
					@	227.88/cum	133993=00
	3) Removing & 13s slab drain and stacking etc complete						
		2	25.00	-	1.35	67.50	
		2	22.00	-	1.35	59.40	
		2	20.00	-	1.35	54.00	
		2	18.00	-	1.35	48.60	
		2	30.00	-	1.35	81.00	
		2	29.00	-	1.35	78.30	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	20.00	–	1.35	54.00	
		2	15.00	–	1.35	40.50	
		2	25.00	–	1.35	67.50	
		2	27.00	–	1.35	72.90	
						621.00 Sqm	
					@	50.11/Sqm	31118.00
	4) Refixing stone slab & drains and pointing in CM (1:3) etc complete						
	Qty vide Item No: ③					621.00 Sqm	
					@	70.04/Sqm	43495.00
	5) providing and laying in position plain cement concrete & mix M7.5 (1:3:6) Ope cement @ 180kgs using hom m and down size crushed granite metal course aggregates @ 0.85cum and fine aggregates @ 0.58cum machine mixed						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .
Date of commencement of work .....

Date	Full description, etc, of work
1	2

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
–	1·35	54·00	
–	1·35	40·50	
–	1·35	67·50	
–	1·35	72·90	
		621·00 Rm	
	@	50·11/Rm	31118·10
ing in CM (1:3)			
NO:	③	621·00 Rm	
	@	70·04/Rm	43495·10
r concrete & mix M7.5 40 in Dpc			
aded granite metal course			
ean machine mixed			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 251769

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	30·00	1·00	0·15	4·50	
		1	36·00	1·00	0·15	5·40	
		2	30·00	1·00	0·15	9·00	
		2	30·00	1·00	0·15	9·00	
		2	18·00	1·00	0·15	5·40	
		2	30·00	1·00	0·15	9·00	
		2	30·00	1·00	0·15	9·00	
		2	15·00	1·00	0·15	4·50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						73.50 cum	
						@ 4290.84/cum	
						315377=00	
	Assistant Executive Engineer, Bylanarayanapura Sub Division, B.B.M.P. Bangalore						
	Measurement continued on ಪುಟ 2 ಮುಂದುವರೆಸಲಾಗಿದೆ						
6)	providing and removing centering, shuttering struting propping etc and removal of form work for vertical surface such as walls at any thickness including attached pilasters etc complete						
		4	30.00	-	0.75	90.00	
		4	30.00	-	0.75	90.00	
		4	30.00	-	0.75	90.00	
		4	30.00	-	0.75	90.00	
		4	30.00	-	0.75	90.00	
		4	36.00	-	0.75	108.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	7) providing and laying in with opc cement @ 320kg coarse aggregates @ 0.87cu

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
		73.50 cum	
		@ 4290.84/cum	
		315377=00	
		ಸಹಾಯಕ ಅಭಿಯಂತರರು/	
		ಎಂ.ಪಿ. 2 ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ	14/8/19
		rulting propping etc and	
		llaborary increases	
	0.75	90.00	
	0.75	90.00	
	0.75	90.00	
	0.75	90.00	
	0.75	90.00	
	0.75	108.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251770

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2x4	30.00	-	0.75	180.00	
		2x4	30.00	-	0.75	180.00	
		2x4	18.00	-	0.75	108.00	
		2x4	30.00	-	0.75	180.00	
		2x4	30.00	-	0.75	180.00	
		2x4	15.00	-	0.75	90.00	
						1617.00 cum	
						@ 271.08/cum	438336=00
	7) providing and laying in position reinforcement cement concrete of design mix M20 with opc cement @ 320kg with 20mm and down size graded granite stab metal coarse aggregates @ 0.87cum and fine aggregates @ 0.45cum etc complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Bottom concrete	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	36.00	1.00	0.15	5.40	
		2	30.00	1.00	0.15	9.00	
		2	30.00	1.00	0.15	9.00	
		2	18.00	1.00	0.15	5.40	
		2	30.00	1.00	0.15	9.00	
		2	30.00	1.00	0.15	9.00	
	Side wall	2	15.00	1.00	0.15	4.50	
		2	30.00	0.15	0.50	4.50	
		2	30.00	0.15	0.55	4.95	
		2	30.00	0.15	0.50	4.50	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2

Assistant Executive
Byatarayanapura
B.B.M.P. Bangalore

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
00	0·15	4·50	
00	0·15	4·50	
0	0·15	4·50	
0	0·15	4·50	
0	0·15	4·50	
0	0·15	5·40	
0	0·15	9·00	
0	0·15	9·00	
0	0·15	5·40	
0	0·15	9·00	
	0·15	9·00	
	0·15	4·50	
	0·50	4·50	
	0·55	4·95	
	0·50	4·20	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251771

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	30·00	0·15	0·50	4·50	
		2	30·00	0·15	0·50	4·50	
		2	36·00	0·15	0·50	5·40	
		2×2	30·00	0·15	0·50	9·00	
		2×2	30·00	0·15	0·50	9·00	
		2×2	18·00	0·15	0·50	5·40	
		2×2	30·00	0·55	0·55	9·90	
		2×2	30·00	0·15	0·60	10·80	
		2×2	15·00	0·15	0·60	5·40	
						154.35 Cum	
						@ 5639.76/Cum	870497=00

Assistant Executive Engineer
Byatarayanapura Sub Division
B.M.P. Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	8) providing TMT Steel reinforcement for RCC work including straightening cutting, bending, hooking placing in position lapping and or welding wherever required tying with binding wire and conforming to the adjoining all complete as per measurement Recorded vide page No. 251794 of this MB					115.76 Qtl @ 7450.92/Qtl 862518.00	
	9) Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface picking up scarified material and stacking of old serviable material with lead of 100m reasonable spreading of the salvage etc						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Road A
	Road B
	Road C

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
k work including strangling capping end or welding d anchoring to the existing			
ment Recovered			
94 @ Rs			
	115.76 Qtl		
	@ 7450.92/Qtl		
		862518.00	
from Thane along with tional and stacking @ old ding @ the said site			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251772

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Road A	1	30.00	4.40	-	132.00	
		1	30.00	(4.4+4.5)	-	133.50	
		1	12.00	(4.5+3.5)	-	58.20	
	Road B	1	30.00	(4.8+5.0)	-	147.00	
		1	19.00	(5.0+5.5)	-	99.75	
	Road C	1	30.00	5.00	-	150.00	
		1	30.00	(5.0+4.8)	-	147.00	
		1	30.00	(4.8+4.6)	-	141.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	34.00	4.60	-	156.40	
	Road D	1	30.00	(5.3+3.4)	-	130.50	
		1	30.00	(3.4+4.7)	-	121.50	
		1	20.60	(4.7+4.0)	-	89.61	
	Road E	1	30.00	4.50	-	135.00	
		1	30.00	4.50	-	135.00	
		1	22.00	(4.5+4.6)	-	100.10	
	Road F	1	30.00	(4.1+3.8)	-	118.50	
		1	30.00	3.80	-	114.00	
		1	20.00	3.80	-	76.00	
		1	30.00	(4.9+5.0)	-	148.50	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	14 carriageway
	Syatem
10)	providing laying spread
	macadam specification
	mechanical mix plant com
	Road A

BOOK

s		Contents	Reference to last Measurement
dth	Depth		
	6	7	8
0	-	156.40	
4)	-	130.50	
.2)	-	121.50	
0)	-	89.61	
	-	135.00	
	-	135.00	
	-	100.10	
	-	118.50	
	-	114.00	
	-	26.00	
	-	148.50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251773

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	35.00	$\frac{(5.0+5.3)}{2}$	-	180.25	
						2502.50 kg	
						@ 72.79/kg	182157=10
	Measurement Executive Engineer Syatarayanapura Sub Division B.B.M.P. Bangalore						
	Continued on: 17-9-2014						
10)	providing laying spreading and compacting graded stone aggregates to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material etc complete						
	Road A	1	30.00	4.40	0.20	26.40	

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
	24.9.2014		
	luding removing & binding ys and small pieces sweeping		
		2502.50 sq m	
		@ 10.53/sq m	26351=00
	1.6 kg per 10 sq m for surface		
	e with cut back MC-70 or		
		2502.50 sq m	
		@ 142.07/sq m	355530=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251775

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
13)	Providing and laying semi dense bituminous concrete 25 mm thick batch type HMP producing an average output of 75 tonnes per hour of specified grading premixed with bituminous binder at 4.5 to 5% by						with 100-120 TPH using crushed aggregates mix sand fillers as
	Road A	1	30.00	4.40	0.025	3.30	
		1	30.00	(4.4+4.5)	0.025	3.34	
		1	12.00	(4.5+3.50)	0.025	1.44	
	Road B	1	30.00	(4.8+5.0)	0.025	3.68	
		1	19.00	(5.0+5.5)	0.025	2.49	
	Road C	1	30.00	5.00	0.025	2.49	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	(5.0+4.8)/2	0.025	3.68	
		1	30.00	(4.8+4.6)/2	0.025	3.53	
		1	34.60	4.60	0.025	3.91	
	Road D	1	30.00	(5.3+3.4)/2	0.025	3.26	
		1	30.00	(3.4+4.7)/2	0.025	3.04	
		1	20.60	(4.7+4.0)/2	0.025	2.24	
	Road E	1	30.00	4.50	0.025	3.38	
		1	30.00	4.50	0.025	3.38	
		1	22.00	(4.5+4.6)/2	0.025	2.50	
	Road F	1	30.00	(4.1+3.8)/2	0.025	2.86	
		1	30.00	3.80	0.025	2.85	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	providing and fixing pre... direction engineer - in charge

UREMENT BOOK

ber	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	30.00	(5.0+4.8)	0.025	3.68	
	30.00	(4.8+4.6)	0.025	3.53	
	34.60	4.60	0.025	3.91	
	30.00	(5.3+3.4)	0.025	3.26	
	30.00	(3.4+4.7)	0.025	3.04	
	20.60	(4.7+4.0)	0.025	2.24	
	30.00	4.50	0.025	3.38	
	30.00	4.50	0.025	3.38	
	22.00	(4.5+4.6)	0.025	2.50	
	30.00	(4.1+3.8)	0.025	2.96	
	30.00	3.80	0.025	2.85	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251776

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	20.00	3.80	0.025	1.90	
		1	30.00	(4.9+5.0)	0.025	3.71	
		1	35.00	(5.0+5.3)	0.025	4.51	
						62.56 cum	
					@	9981.36/cum	624434=00
	(4) providing and fixing precast RCC slabs as per approved design specification and direction engineer-in charge of work.						
		1	30.00	1.00	-	30.00	
		1	30.00	1.00	-	30.00	

CB FC
Executive Engineer
Byatarayanapura
24/9/2014.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	1.00	-	30.00	
		1	30.00	1.00	-	30.00	
		1	30.00	1.00	-	30.00	
		1	36.00	1.00	-	36.00	
		2	30.00	1.00	-	60.00	
		2	30.00	1.00	-	60.00	
		2	30.00	1.00	-	60.00	
		2	25.00	1.00	-	50.00	
		2	30.00	1.00	-	60.00	
		2	30.00	1.00	-	60.00	
		2	15.00	1.00	-	30.00	
						566.00 Cu.m	
					@	1490=00/Cu.m	843340.00

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2
15/	Load for disposal of debris including loading and un

Executive Engineer
Byatarayanapura
B.B.M.P. Bn

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
	-	30.00	
	-	30.00	
	-	30.00	
	-	36.00	
	-	60.00	
	-	60.00	
	-	60.00	
	-	50.00	
	-	60.00	
	-	60.00	
	-	30.00	
		566.00 Cum	
	@	1496=00/Cum	8433 40=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251777

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(15) Lead for disposal of debris shall be including loading and unloading etc complete	payable at carriage rates by mechanical means					
		Qty vide item No. (1)				416.33 Cum	
					@	72.71/Cum	30271=00
				Total			5356267=00
				KRIDL charges @		11%	589189=00
				TPI charges @		1%	53562=00
							5999019=00

Assistant Executive Engineer
Jyatanagar Sub Division
B.B.M.P. Bangalore

ಆಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
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OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
			ue is satisfactorily.

24/9/14

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251778

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
					IT - 118909 —		
					KSI - 237818 —		
					ISR 386455 —		
					Cove - 59455 —		
					CSR 5946		
					Com — 87136		
					Total 895719=00		

5945456=00
895719=00
50,349,737=00